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	Application No.	Applicant(s)	
Notice of Allowability	09/824,969	KUMATA, ICHIRO	
	Examiner	Art Unit	
	Lawrence B Williams	2634	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in () or other appropriate commure (IGHTS). This application is su	this application. If not included nication will be mailed in due course. THI	
1. \boxtimes This communication is responsive to <u>15 November 2004</u> .			
2. The allowed claim(s) is/are 1,3-5,7-11,13-14, 16-21, 24-25	5, renubered as 1, 2-4, 5-9, 10	<u>-11, 12-17, 18-19</u> .	
3. The drawings filed on <u>03 April 2001</u> are accepted by the E	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 	e been received.		€
 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ocuments have been received	in this national stage application from the	;
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	u) ^s
5. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner 	son's Patent Drawing Review 		
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR			ບ
each sheet. Replacement sheet(s) should be labeled as such in			
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Notice of Info	ormal Patent Application (PTO-152)	ü
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		,,	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./N	Mail Date Amendment/Comment	
Paper No./Mail Date 4.	8. 🛛 Examiner's S	Statement of Reasons for Allowance	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

of Biological Material

9. Other ____.

43

Art Unit: 2634

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas F. Presson on 25 January 2005.

The application has been amended as follows:

- a.) In line 13 of claim 1, delete the period after ".... inverted data" and add "; and wherein, as said synchronization data, said synchronization data generating circuit generates data whose value changes two or more times within a period in which the level of the clock signal is constant, that is, from a rising edge to a next falling edge, or from a falling edge to a next rising edge of said clock signal. "
 - b.) Cancel claim 6.
 - c.) In line 1 of claim 7, delete the phrase "claim 6" and replace with "claim 1".
 - d.) In line 1 of claim 8, delete the phrase "claim 6" and replace with "claim 1".
- e.) In line 12 of claim 10, delete the period after ".... inverted data"; and add "; and wherein, as said synchronization data, said synchronization data generating circuit generates data whose value changes two or more times within a period in which the level of the clock signal is constant, that is, from a rising edge to a next falling edge, or from a falling edge to a next rising edge of said clock signal. "

Page 2

Art Unit: 2634

Page 3

f.) In line 12 of claim 11, delete the period after ".... parallel data"; and add "; and wherein, as said synchronization data, said synchronization data generating circuit generates data whose value changes two or more times within a period in which the level of the clock signal is constant, that is, from a rising edge to a next falling edge, or from a falling edge to a next rising edge of the clock signal. "

- g.) Cancel claim 15.
- h.) In line 11 of claim 16, delete the period after ".... parallel data"; and add "; and wherein said detection step detects data whose value changes two or more times within a period in which the level of the clock signal is constant, that is, from a rising edge to a next falling edge, or from a falling edge to a next rising edge of said clock signal. "
- i.) In line 23 of claim 17, delete the period after ".... parallel data"; and add "; and wherein when synchronized serial data is transmitted by said data transmitting circuit, as said synchronization data, said synchronization data generating circuit of said transmitting circuit generates data whose value changes two or more times within said period in which the level of a clock signal is constant.
 - j.) Cancel claim 22.
 - k.) Cancel claim 23.
 - 1.) In line 1 of claim 24, delete the phrase "claim 22" and replace with "claim 17".

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The instant application discloses a method and apparatus for frame synchronization serial data transmission. A search of prior art records has failed to disclose a method and apparatus comprising "wherein, as said synchronization data, said synchronization data generating circuit generates data whose value changes two or more times within a period in which the level of the clock signal is constant, that is, from a rising edge to a next falling edge, or from a falling edge to a next rising edge of said clock signal" as disclosed in claims 1, 10. Nor does the prior teach a receiving circuit "wherein said synchronization data detection circuit detects data whose value changes two or more times within a period in which the level of the clock signal is constant, that is, from a rising edge to a next falling edge, or from a falling edge to a next rising edge of the clock signal " or "wherein said detection step detects data whose value changes two or more times within a period in which the level of the clock signal is constant, that is, from a rising edge to a next falling edge, or from a falling edge to a next rising edge of said clock signal" or "wherein when synchronized serial data is transmitted by said data transmitting circuit, as said synchronization data, said synchronization data generating circuit of said transmitting circuit generates data whose value changes two or more times within said period in which the level of a clock signal is constant" as disclosed in claims 11, 16 and 17 respectively.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2634

Page 5

CONCLUSION

- a.) Mauch et al. discloses in US Patent 3,685,012 Method and Apparatus for Processing Data.
- b.) Kondo et al. discloses in US Patent 4,894,819 Data Transmission Method in Optical Star Network and Optical Star Network and Optical Star Network System for Realizing the Same.
- c.) Szczepanek et al. discloses in US Patent 4,674,086 Token Ring Access Control Protocol Circuit.
 - d.) Yamada et al. discloses in US Patent 5,892,384 Timing Signal Generation Circuit.
- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2634

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams

lbw January 25, 2005 ALLIAGIONIA REURIMANE VINLLING